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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A central base (~~1~~) for a private wireless local area network, this central base comprising electronic circuits that include an electronic central unit (~~5~~) and that are supplied with electricity by at least one live supply line (~~27~~) intended to be connected to an external electricity power source, said central base being suitable for communicating:

- on the one hand, with a public telecommunication network (~~3~~),
- and on the other hand, with at least one wireless peripheral device (~~2~~),

according to a digital bidirectional wireless protocol for a private wireless local area network,

characterized in that it comprises an interface circuit (~~30~~) which is controlled by the electronic central unit (~~5~~) of said central base and which is connected to said supply line (~~27~~), this interface circuit being suitable for sending and receiving messages on said supply line,

and in that the interface circuit (~~30~~) of the central base is suitable for sending and receiving high frequency periodic signals representative of sent and received messages, and the central base comprises a low-pass filter (~~L1~~) suitable for filtering said high frequency periodic signals between the interface circuit (~~30~~) of the central base and at least a portion of the electronic circuits of the central base.

2. (Currently Amended) The central base as claimed in claim 1, in which the interface circuit (~~30~~) of the central base is installed in drop and insert mode on said supply line.



3. (Currently Amended) The central base as claimed in ~~any one of the preceding claims~~ claim 1, in which the interface circuit (30) of the central base is suitable for sending and receiving periodic signals at a frequency lying between 100 and 500 kHz.

4. (Currently Amended) The central base as claimed in ~~any one of the preceding claims~~ claim 1, in which the interface circuit (30) of the central base is controlled by the electronic central unit (5) of the central base via a serial interface controller (32).

5. (Currently Amended) The central base as claimed in ~~any one of the preceding claims~~ claim 1, suitable for sending outgoing alphanumeric messages at least to the public telecommunication network (3) and for receiving incoming alphanumeric messages at least from said public telecommunication network, the electronic central unit (5) of the central base being suitable for:

(a) recognizing at least certain incoming alphanumeric messages intended for an external interface module (20), called service messages, and for causing to be generated on the supply line (27), by said interface circuit (30) of the central base, a message corresponding to each incoming service message,

(b) and when it receives a message received by the interface circuit (30) of the central base on the supply line (27), determining whether this message must be transmitted to the outside and, in this case, sending an outgoing alphanumeric message, called outgoing service message, corresponding to the message received.

6. (Currently Amended) The central base as claimed in claim 5, also suitable for sending outgoing alphanumeric messages to at least one wireless peripheral



device (2) by using said wireless protocol, and for receiving incoming alphanumeric messages from said wireless peripheral device.

7. (Currently Amended) A wireless device comprising a central base (8) as claimed in ~~any one of the preceding claims~~ claim 1 and an external interface module (20), distinct from the central base, which itself comprises:

- an electronic central unit (34),
- and an interface circuit (31) controlled by said electronic central unit of the external interface module and which is connected to said supply line (25, 27), this interface circuit (31) of the external interface module being suitable for communicating with the interface circuit (30) of the central base by sending and receiving messages on said supply line (25, 27).

8. (Currently Amended) The wireless device as claimed in claim 7, in which the interface circuit (31) of the external interface module is installed in drop and insert mode on said supply line (25, 27).

9. (Currently Amended) The wireless device as claimed in claim 7 ~~or claim 8~~, in which the interface circuit (31) of the external interface module is suitable for sending and receiving high frequency periodic signals representative of messages sent and received, and the external interface module (20) comprises a low-pass filter (L2) suitable for filtering said high frequency periodic signals between the interface circuit (31) of the external interface module and an electricity supply device (22) intended to connect said supply line (25, 27) to the external electricity power source.



10. (Currently Amended) The wireless device as claimed in claim 7, in which the interface circuit (31) of the external interface module is suitable for sending and receiving periodic signals at a frequency lying between 100 and 500 kHz.

11. (Currently Amended) The wireless device as claimed ~~in any one of claims 7 to 10~~ claim 7, in which the interface circuit (31) of the external interface module is controlled by the electronic central unit (34) of said external interface module via a serial interface controller (33).

12. (Currently Amended) The wireless device as claimed in ~~any one of claims 7 to 11~~ claim 7, in which the central base (1) and the external interface module (20) are suitable for communicating together according to a half-duplex asynchronous protocol.

13. (Currently Amended) The wireless device as claimed in ~~any one of claims 7 to 12~~, also comprising an external electronic device (19), distinct from the external interface module (20) and communicating with the electronic central unit (31) of said external interface module.

14. (Currently Amended) The wireless device as claimed in claim 13, in which the external electronic device (19) is chosen from a sensor, an actuator and a centralized command and control device suitable for being connected to a plurality of sensors and actuators.

15. (Currently Amended) The wireless device as claimed in ~~any one of claims 7 to 14~~ claim 7, comprising a central base (1) ~~as claimed in claim 5~~, and in which the electronic central unit (34) of the external interface module (20) is suitable for causing messages intended to be sent by the central base (1) in the form of outgoing service messages



to be generated on the supply line ~~(25, 27)~~, by the interface circuit ~~(31)~~ of said external interface module.